



SUNPOWER TECHNOLOGY CORP.  
16F-1, No.150, Jian 1st Rd., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.).  
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<http://www.sunpower.com.tw>  
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# SDX-6200-24

## 200W, Six Output Industrial 1U System



180 x 100 x 40.5 mm  
7.09 x 3.94 x 1.60 inch



### Features:

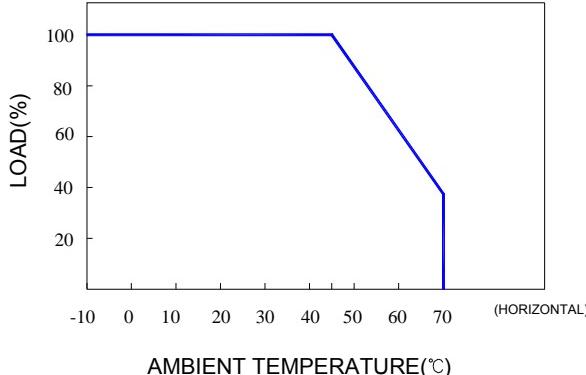
- \* Input and output isolation
- \* Soft start function, low inrush current
- \* Over voltage protection
- \* Over load & short circuit protection
- \* 100% full load burn-in test
- \* Meet Intel ATX 2.01 / ATX 2.03 / ATX 12V / EPS
- \* Meet LVD standard
- \* UL, cUL, CB, CE approved
- \* 1 year warranty

### Specification:

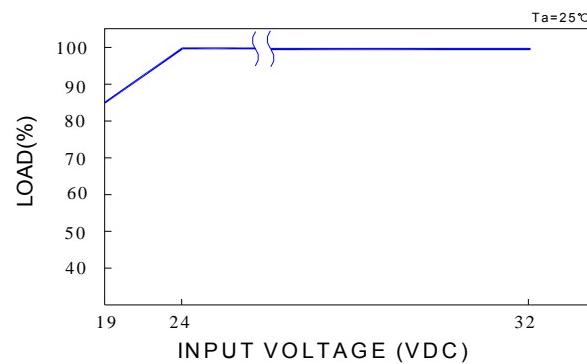
INPUT	Voltage	19V ~ 32V DC (Typical 24V)					
	Current	<16A @ 19V DC input.					
	Protection	Ceramic Fuse, 20A/250V					
OUTPUT	OUTPUT	V1	V2	V3	V4	V5	V6
	Voltage	5V	3.3V	12V	-5V	-12V	5Vsb
	Min Load	0.5A	0.1A	0.2A	0A	0A	0A
	Max Load	25A	15A	12A	0.5A	1A	19V~23V: 1A 24V~32V: 1.5A
	Output Tolerance ②	±5%	±5%	±5%	±5%	+8/-5%	±5%
	Ripple Noise MAX. ③	70mV	70mV	120mV	100mV	200mV	70mV
	Efficiency (TYP.)	68%					
PROTECTION	Output MAX.	3.3V & 5V total output maximum 130W, -5V & -12V total output max 12W, Total output maximum 200W.					
	Over Voltage	5.8V~7.0V	3.8V~4.6V	13.8~16.8V	---	---	---
	OverLoad & Short Circuit	Shutdown, it needs re-power on to recover					
ELEC. CHAR.	Rise time	<20mS					
	Power good signal	Power ON within 100---500ms, high level TTL Signal release.					
ENVIRONMENT	Temperature ④	Operating: -10 ~ 70°C ; De-rating: 45 ~ 70°C: 2.5%/°C ; Storage: -20~+85°C					
	Humidity	Operating: 20% ~ 90% (non condensing) RH; Storage: 10% ~ 95% RH (non condensing)					
SAFETY	Withstand voltage	I/P-O/P:2.0KVAC, I/P-PE:1KVAC, 1minute					
	Isolation resistance	I/P-O/P, I/P-PE, >100MΩ/500VDC at 25°C / 70% RH					
EMC	EMI	EN 55022 CLASS B、FCC CFR 47 PART 15 CLASS B、CNS 13438 CLASS B.					
	EMS	EN 55024 : EN 61000-4-2,3,4,6,8 ; ENV 50204					
OTHERS	Cooling	Forced airflow cooling with DC fan					
	M.T.B.F.	142K hours					
	Dimension	180 x 100 x 40.5 mm (L*W*H)					
	Packing	N.W.: 1.98 Kg / 1pc; 6 pcs / 1.44 CUFT / 1 CTN					
NOTE	① All measurements which not mentioned are based on 24VDC input, <b>output Max</b> at ambient 25°C / 70%RH.						
	② Output tolerance included set up voltage, line regulation and load regulation.						
	The regulation is measured at the condition : when any of output is with 20% ~ 100% <b>max load</b> and the rest of each outputs are with 60% <b>max load</b> , Each output could work within <b>max load</b> but must under total <b>output max</b> .						
	③ Ripple & noise are measured at 21~32VDC input with 10~50°C condition and 20MHz of bandwidth by terminated using a 10" ~ 15" twisted pair-wire with a 0.1uF & a 47uF parallel capacitor.						
	④ The operating temperature shall follow the de-rating curve in spec						
	⑤ The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.						

# SDX-6200-24

## De-rating Curve :

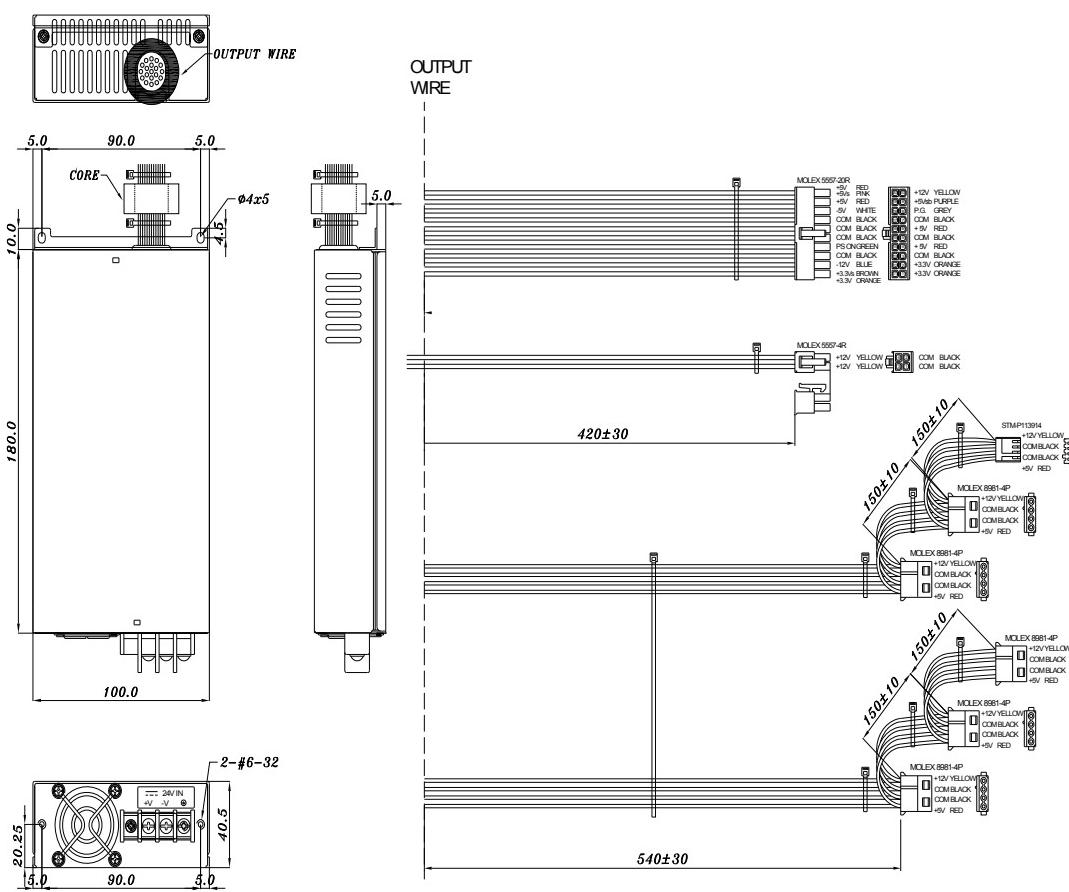


## Output De-rating Vs Input Voltage



## Dimension:

(Unit: mm)





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# SDX-6200-48

# SDX-6250-48

200/250W, Six Output  
Industrial 1U System



180 x 100 x 40.5 mm

7.09 x 3.94 x 1.60 inch

205 x 100 x 40.5 mm

8.07 x 3.94 x 1.60 inch



## Features:

- \* Input and output isolation
- \* Soft start function, low inrush current
- \* Over voltage protection
- \* Over load & short circuit protection
- \* 100% full load burn-in test
- \* Meet Intel ATX 2.01 / ATX 2.03 / ATX 12V / EPS
- \* Meet LVD standard
- \* UL, cUL, CB, CE approved
- \* 1 year warranty

## Specification:

	Model No.	SDX-6200-48						SDX-6250-48									
INPUT	Voltage	36V ~ 72V DC (Typical 48V)						40V ~ 65V DC (Typical 48V)									
	Current	<8.4A @ 36V DC input.						<9A @ 40V DC input.									
	Protection	Ceramic fuse, 12A/250V						Ceramic fuse, 12A/250V									
OUTPUT	OUTPUT	V1	V2	V3	V4	V5	V6	V1	V2	V3	V4	V5	V6				
	Voltage	5V	3.3V	12V	-5V	-12V	5Vsb	5V	3.3V	12V	-5V	-12V	5Vsb				
	Min Load	0.5A	0.1A	0.2A	0A	0A	0A	2A	0.1A	0.2A	0A	0A	0A				
	Max Load	25A	15A	12A	0.5A	1A	2A	28A	20A	16A	0.5A	1A	2A				
OUTPUT	Output Tolerance ②	±5%	±5%	±5%	±5%	+8/-5%	±5%	±5%	±5%	±5%	±5%	+8/-5%	±5%				
	Ripple Noise MAX. ③	70mV	70mV	120mV	100mV	200mV	70mV	70mV	70mV	120mV	100mV	200mV	70mV				
	Efficiency (TYP.)	67%						70%									
	Output MAX.	SDX-6200-48		3.3V & 5V total output max 130W, -5V & -12V total output max 12W, Total output max 200W													
		SDX-6250-48		3.3V & 5V total output max 140W, -5V & -12V total output max 12W, Total output max 250W													
PROTECTION	Over Voltage	5.8V~7.0V	3.8V~4.6V	13.8~16.8V	---	---	---	5.8V~7.0V	3.8V~4.6V	13.8~16.8V	---	---	---				
		Shutdown, it needs re-power on to recover															
	OverLoad & Short Circuit	When power supply over 105%~150% max load or short circuit acted, power supply will be shutdown and recover automatically after the fault is removed.															
ELEC. CHAR.	Rise time	<20mS															
	Power good signal	Power ON within 100---500ms, high level TTL Signal release.															
ENVIRONMENT	Temperature ④	Operating: -10 ~ 70°C ; De-rating: 45 ~ 70°C: 2.5%/°C ; Storage: -20~+85°C															
	Humidity	Operating: 20% ~ 90% (non condensing) RH; Storage: 10% ~ 95% RH (non condensing)															
SAFETY	Withstand voltage	I/P-O/P:2.0KVAC, I/P-PE:1KVAC, 1minute															
	Isolation resistance	I/P-O/P, I/P-PE, >100MΩ/500VDC at 25°C / 70% RH															
EMC	EMI	EN 55022 CLASS B、FCC CFR 47 PART 15 CLASS B、CNS 13438 CLASS B.															
	EMS	EN 55024 : EN 61000-4-2,3,4,6,8 : ENV 50204															
OTHERS	Cooling	Forced airflow cooling with DC fan															
	M.T.B.F.	142K hours				138K hours											
	Dimension	180 x 100 x 40.5 mm (L*W*H)				205 x 100 x 40.5 mm (L*W*H)											
	Packing	N.W.: 1.98 Kg / 1pc; 6 pcs / 1.44 CUFT / 1 CTN															
NOTE	① All measurements which not mentioned are based on 48VDC input, <b>output Max</b> at ambient 25°C / 70%RH. ② Output tolerance included set up voltage, line regulation and load regulation. The regulation is measured at the condition : when any of output is with 20% ~ 100% <b>max load</b> and the rest of each outputs are with 60% <b>max load</b> , Each output could work within <b>max load</b> but must under total <b>output max</b> . ③ Ripple & noise are measured at 40~72V/40~65VDC input with 10~50°C condition and 20MHz of bandwidth by terminated using a 10" ~15" twisted pair-wire with a 0.1uF & a 47uF parallel capacitor. ④ The operating temperature shall follow the de-rating curve in spec ⑤ The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.																

# SDX-6200-48

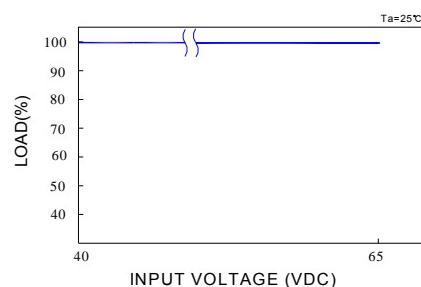
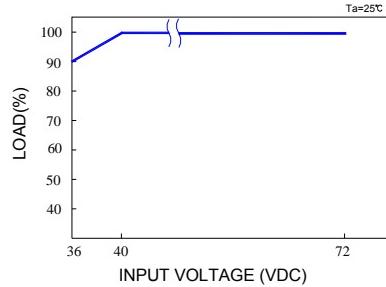
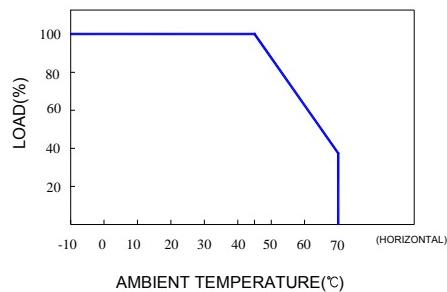
# SDX-6250-48

De-rating Curve :

Output De-rating Vs Input Voltage

SDX-6200-48

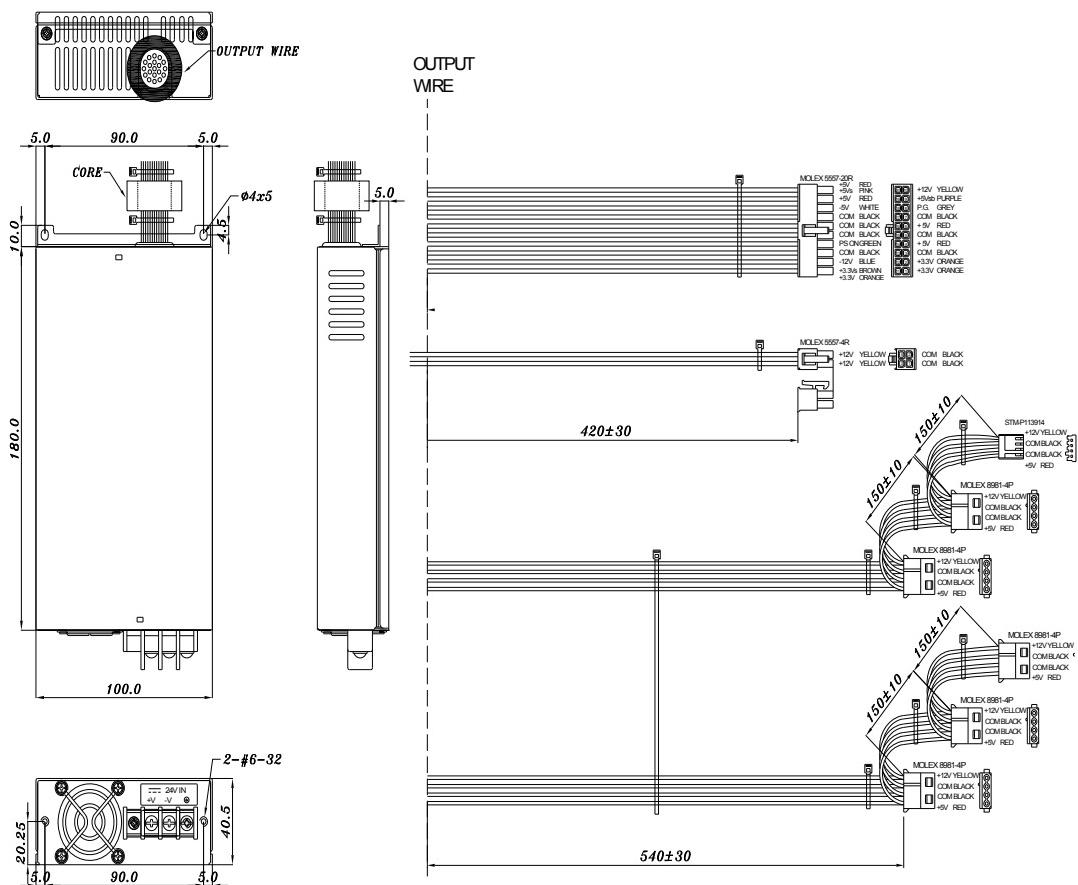
SDX-6250-48



Dimension:

SDX-6200

(Unit: mm)





**SDX-6200-48**

**SDX-6250-48**

**SDX-6250**

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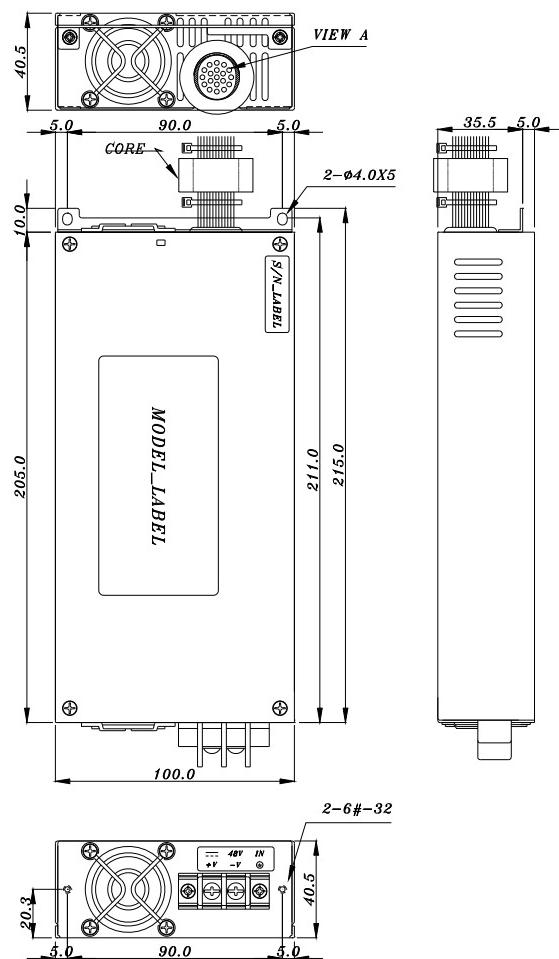
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*VIEW A*

